



Astrup MDS AISI 4140 Rev 3

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Material Description						Quality						
Engineering steel bars, Hotrolled, hardened and tempered, straightened, peeled						AISI 4140						
Chemical Composition												
	C	Si	Mn	Mo	Cu	Cr	Ni	Al	S	P	V	Sn
Min	0,38	0,15	0,75	0,15		0,80		0,015				
Max	0,43	0,35	1,00	0,25	0,25	1,10	0,25	0,035	0,025	0,025	0,03	0,10
Technical requirements												
• Acc. to NACE 0175 / ISO 15156 and API 6A 80K PSL3 • Yield $\geq 551 \text{ N/mm}^2$ / 80 Ksi • Tensile RM = 690-800N / mm^2, Max 22 HRC • Charpy V Test at -29 C^0 min 42J • Elongation min 20%, Red of Area min 40% • Test pos. longitudinal on mid radius $< 7''$ dia and $1''$ below surface on $> 7''$ dia • All according to ASTM A370 • Max H2 2 ppm												
Certificate												
Acc. to EN 10204/3.1												
Forms of supply												
Lengths from 4-6 meter.												
Marking												
Astrup purchase number, each bar to be hard stamped with charge number, Marked with quality and dimension.												